Planning & preparation Eponet e-mobility project

This chapter describes the responsibilities, tasks and duties of the partners in an Eponet e-mobility project.

General competences and responsibilities

This document describes the responsibilities, tasks and duties of the partners in an Eponet e-mobility project. The aim of the document is to ensure error-free and efficient planning and implementation. Only if all parties adhere to the agreements can the project be implemented within the planned timeframe and budget.

The partners in this document are **the client** (customer), **the installation partner** (electrician, charging station supplier) and **Eponet as CSP** (cloud service provider). Other necessary companies and services and their areas of responsibility are organised and regulated outside this document.

> Important: if the e-mobility project is located at a site where an ICT company is responsible for
> the network, this company must be involved at the start of planning.

Definition of partners/responsibilities

Client:
The client is the owner or manager of the facility (infrastructure owner). They are usually responsible for address data, charging tariffs, VAT number (if necessary), bank details and customer addresses and their maintenance. If this is not the case, this must be commissioned elsewhere.

Installation partner:
The installation partner plans, quotes, sells and installs the components (charging stations, energy meters, load management, etc.). The installation partner is responsible for the correct configuration of the hardware. In the event of a service call, they are the first point of contact for maintenance and can replace defective components and restore the configuration (first level support).

CSP (Cloud Service Provider):
Eponet as a CSP is the tool for managing and billing data, authorising charging processes and billing them – and, if load management is carried out by Eponet, for regulating the power of the

charging stations.

Time schedule

Early planning is essential for material procurement and personnel planning. A project can be discussed during the planning phase and materials can be reserved or pre-ordered in advance. The supply situation is no longer what it used to be – we recommend ordering hardware at least 8-12 weeks before implementation. Earlier is also welcome!

Project information for the Eponet portal should be compiled at least 2-4 weeks before commissioning. The client or owner/administrator of the charging infrastructure can use the project information to open and prepare the account. **Opening the account is the first step so that the installation partner can activate the charging stations immediately during installation**.

Start preparing the account early (create a charging profile, set up the object structure, etc.).
All these instructions can be found in the book The Eponet Portal. The Eponet Wiki describes all the steps. Any data entries made by Eponet are subject to a fee – see the Eponet price list or quote.

The installation partner is responsible for the early installation and configuration of the components. The infrastructure requires a stable internet and network connection. If the network is managed by an external company, the integration of e-mobility must be discussed and defined with the external company at an early stage of the planning phase. > See Check 03 Network

Eponet recommends commissioning in two parts.

Part 1A: Charging stations, installation, configuration of all components, bringing the charging stations online, possibly
connecting to the Eponet portal by the installation partner.

> **Charging station integration & billing:**
> For integration into the Eponet backend, charging stations must not only be OCPP 1.6j-compatible, but also supported by Eponet. Please check whether Eponet supports your desired model.

Requirements:
For on-site commissioning, all charging stations must be "online" (i.e. have an internet connection) and have the latest software version. Ideally, they should already be connected to the Eponet portal.
If the charging stations are not online two working days before the Eponet commissioning date, the

appointment will be cancelled and a new one will have to be made. If the charging stations are not online on site, the time for the additional work or any return visits will be charged separately according to the time and effort involved. The same applies if commissioning is not possible due to incorrect software versions.

> See Check 01 Charging stations

Part 1B: Load management by Eponet

If Eponet load management is used in addition to integration and billing, the following must be observed. Not all charging stations approved for integration can also be used in Eponet load management. Please check whether your desired model is also suitable for Eponet load management.

Requirements:
We recommend a separate network area for e-mobility products, e.g. a VLAN. All e-mobility products should be located in this area: -

Charging stations - Eponet EdgeServer for load management (DHCP)
- Energy meters in accordance with Eponet approval (fixed IP address mandatory)
- All network-relevant data must be available in writing.
- We recommend a flat data package with at least 10/5 Mbits.
- Please note: If there are more than 4 charging stations and Eponet load management, the data package must be larger than 10/5 Mbits!

The energy meter must be configured 2 working days before the Eponet commissioning date (transformer ratio and fixed IP address). If the energy meters are not configured 2 working days before the Eponet commissioning date, the appointment will be cancelled and a new one must be made. If the energy meters are not ready for use on site, the time for the additional work or any return visits will be charged separately according to the time and effort involved. A schematic diagram is recommended for reliable implementation and subsequent support. This will then also be stored on the Eponet portal.

>See Check 02 Load Management

Part 2: Detailed configuration of the portal

(RFID approvals, set up load management if available), on-site test (RFID approval, public charging, load management). Add data, documents and images to the portal.

Completion and handover.

Check 01 Charging stations

Requirements:

For on-site commissioning, all charging stations must be "online" (i.e. have an internet connection) and have the latest software version. Ideally, they should already be activated on the Eponet portal.

If the charging stations are not online two working days before the Eponet commissioning date, the appointment will be cancelled and a new one will have to be arranged. If the charging stations are not online on site, the time required for the additional work or any return visits will be charged separately at cost. The same applies if commissioning is not possible

due to incorrect software versions. In addition to the make and model, we also need the serial number and which serial number has been installed at which parking space number (or location). Please do not mix up serial numbers. It is best to create a list (not handwritten to avoid errors) with:

- **Brand**
- **Model**
- **Serial number**
- **Power (e.g. 22kW or 180kW, etc.)**
- **Parking space number/address**

> The charging stations must be online 2 days before the Eponet appointment. We recommend a flat-rate data package with at least 10/5 Mbits. Please note: If you have more than 4 charging stations and Eponet load management, the data package must be larger than 10/5 Mbits!

Check 02 Load management

Load management via Eponet

If Eponet load management is used in addition to integration and billing, the following must be taken into account. Not all charging stations approved for integration can also be used in Eponet load management. Please check whether your desired model is also suitable for Eponet load management.

Requirements:

We recommend a separate network area for e-mobility products, e.g. a VLAN. All e-mobility products should be located in this area. As energy meters require a fixed IP address, please ensure that there is an area for manual IP addresses – or that an assignment via MAC address is set up.

The following must be included in the VLAN:

- Charging stations
- Eponet EdgeServer for load management (DHCP)
- Energy meters in accordance with Eponet approval **(fixed IP address required).**

> The energy meter must be configured 2 working days before the Eponet commissioning date (converter ratio set and fixed IP address). If the energy meters are not configured 2 working days before the Eponet commissioning date, the appointment will be cancelled and a new one must be made.

> If the energy meters are not ready for use on site, the time for the additional work or any return visits will be charged separately according to the time and effort involved.

A schematic diagram is recommended for reliable implementation and subsequent support. This will then also be stored on the Eponet portal.

Check 03 Network

Network configurations

Important: if the e-mobility project is located at a site where an ICT company is responsible for the network, it is essential that this company is involved from the start of the planning process.

The infrastructure requires a stable internet and network connection. If the network is managed by an external company, the integration of e-mobility must be discussed and defined with the external company at an early stage of the planning phase.

Requirements:

> **VLAN requirement**
> We strongly recommend a separate network area, e.g. a VLAN, for e-mobility products. All e-mobility products should be located in this area. If the products are not in an isolated VLAN, i.e. if they are mixed with other products, flawless load management cannot be guaranteed due to latency or interference. Eponet does not offer support if these requirements have not been implemented. Any additional costs incurred for troubleshooting may be billed on a time and material basis.

The following products belong in the e-mobility VLAN:

- Charging stations
- Eponet EdgeServer for load management (DHCP)
- Energy meters in accordance with Eponet approval (fixed IP address mandatory)

All network-relevant data must be available in
writing. We recommend a flat data package with at least 10/5 Mbits.

> **Please note:**
> If **you** have more than 4 charging stations and Eponet load management, the data package must be larger than 10/5 Mbits!

Netzwerkanforderungen.png